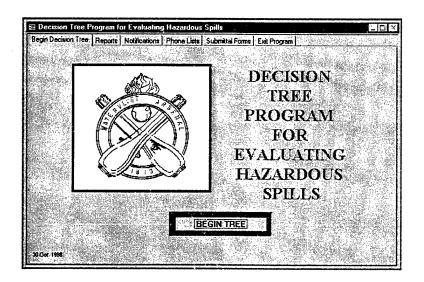
## Watervliet Arsenal Decision Tree Program for Evaluating Hazardous Spills (SPILL)

Veda D. Scarpetta



This study devised the Decision Tree Program for Evaluating Hazardous Spills (SPILL), a computer tool designed to allow Army installation personnel to evaluate a material spill on installation property and, based on determining factors, to report the event in a proper and timely fashion to all appropriate authorities. The program accomplishes the determination by presenting the user with a series of "YES" and "NO" questions regarding the spill. On conclusion of the question/answer

segment, the program lists instructions and required notifications for the specific type of spill in question. SPILL also contains editable notification and phone lists.

While the SPILL program was created specifically to meet the needs of a single Army installation, it may help any installation that stores, handles, or uses hazardous materials to quickly and correctly evaluate and respond to hazardous materials spills.

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#### **Foreword**

This study was conducted for Watervliet Arsenal under MIPR No. 8DISCERL19X, "Decision Tree Program for Evaluation Hazardous Spills." The technical monitor was Dr. Dana L. Levy, SIOWV-ISH.

The work was performed by the Facilities Maintenance Branch (CF-F) of the Facilities Division (CF), Construction Engineering Research Laboratory (CERL). The CERL Principal Investigator was Veda D. Scarpetta. Many thanks are owed to Jearldine Northrup, CECER-CN-E, for her valuable contributions as technical advisor to this project. Mark W. Slaughter is Chief, CECER-CF-F, and L. Michael Golish is Chief, CECER-CF. The technical editor was William J. Wolfe, Information Technology Laboratory.

The Director of CERL is Dr. Michael J. O'Connor.

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#### 1 Introduction

#### **Background**

The Decision Tree Program for Evaluating Hazardous Spills (SPILL) is a computer tool designed to allow Watervliet Arsenal personnel to evaluate a material spill on installation property and, based on determining factors, to report the event in a proper and timely fashion to all appropriate authorities. The program accomplishes the determination by presenting the user with a series of "YES" and "NO" questions regarding the spill. There are many paths through the program. Not all questions are asked every time, only the ones pertinent to the current set of circumstances. On conclusion of the question/answer segment, the user will be presented with reports that list instructions and required notifications for the specific type of spill in question.

In addition to the decision tree portion of the program, SPILL also contains editable notification and phone lists. The program also provides a facility for printing out the New York State Department of Environmental Conservation Division of Water "REPORT OF NONCOMPLIANCE EVENT" form.

#### **Objective**

The objective of this study was to devise an automated approach to help Army installation personnel quickly and correctly evaluate hazardous materials spills, and make required notifications.

#### **Approach**

- Definitions of hazardous materials, and notification requirements for hazardous materials spills were reviewed.
- 2. A series of Yes/No questions was derived to determine, according to specific determining factors, whether a specific spill involved hazardous material(s), and whether notification(s) were required.
- 3. The question/answer series was programmed into a user-friendly, menu-driven MS Access data base program.

4. The data base program was also programmed to include editable notification and phone lists so users can update the program to meet current needs.

#### Scope

While the SPILL program was created specifically to meet the needs of a single Army installation, it may help any installation that stores, handles, or uses hazardous materials to quickly and correctly evaluate and respond to hazardous materials spills.

#### **Mode of Technology Transfer**

The SPILL program was sent directly to its sponsoring agency. It is anticipated that the SPILL manual and application will be made available for download from the CERL Internet web page, accessible through the URL:

http://www.cecer.army.mil/

## 2 System Requirements

The SPILL program was developed using Microsoft® ACCESS® 97. Microsoft ACCESS is a Relational Data Base Management System (RDBMS) with a built-in visual basic programming capability. SPILL requires approximately 6.5 megabytes of disk space as well as at least 12 megabytes of RAM under Windows 95 or 16 megabytes under Windows NT. It is also intended for use with monitors having VGA resolution. If the SPILL program is used with super VGA resolution, it may not fit properly on the computer screen.

## 3 System Installation

To install the SPILL program to the hard drive on your computer, load the installation CD into your CD drive. Run the SETUP.EXE program from the CD to begin the installation. The default installation directory is C:\spill, but you may change this at setup time (Figure 1). A "Hazardous Spill Decision Tree" item will be added to the Windows Programs menu at the conclusion of the installation process. Click on the SPILL menu item to start the program.

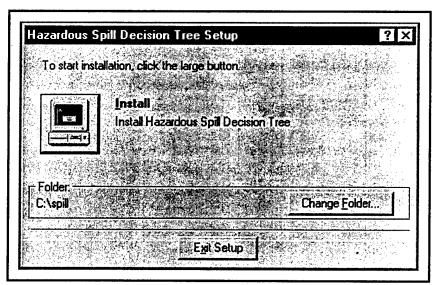


Figure 1. SPILL program setup menu.

#### 4 Overview of Screens

The program interface is segmented into six tabbed screens. The tabs are labeled "Begin Decision Tree," "Reports," "Notifications," "Phone Lists," "Submittal Forms," and "Exit Program." To select a screen, simply left-mouse click on the appropriate tab. The use of each of these six screens will be detailed below. The "Begin Decision Tree" screen (Figure 2) is displayed first.

#### **Begin Decision Tree**

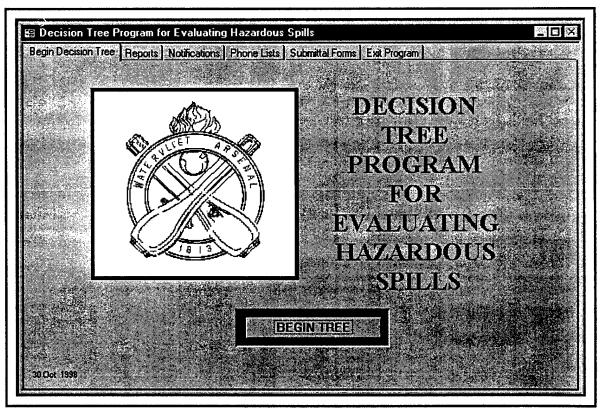


Figure 2. "Begin Decision Tree" screen.

Click the "BEGIN TREE" button to begin the question/answer session. The series of questions are organized into eleven blocks, labeled A, B, C ... through K. (Blocks G, H, and K are currently unavailable, but could be added at a later date.) Depending upon how each question is answered, another question may

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follow. Do NOT be concerned if some questions are skipped. Answering YES or NO to particular questions may trigger a NOTIFICATION statement. When the program concludes, the program will create a report listing all the notifications that apply to the specific spill event. The user should follow the instructions in the notifications so all the appropriate authorities will be notified of the situation.

Appendix A to this letter report lists the text of each question in the system. Appendix B gives a "road map" showing how the questions are organized, and the sequence the questions will follow depending on specific YES or NO answers. This list also shows which NOTIFICATIONS the given answers will trigger.

Figure 3 shows a sample question screen. For each question screen, the user must mouse-click the YES or NO button, then click the NEXT SCREEN button. On some screens, there is a PREVIOUS SCREEN button, which can be used to return to the previous screen. A user may back up through screens in the current question block, but may not return to a previous block. The block label appears in the bottom left corner. This screen shows Question #18 in Block C.

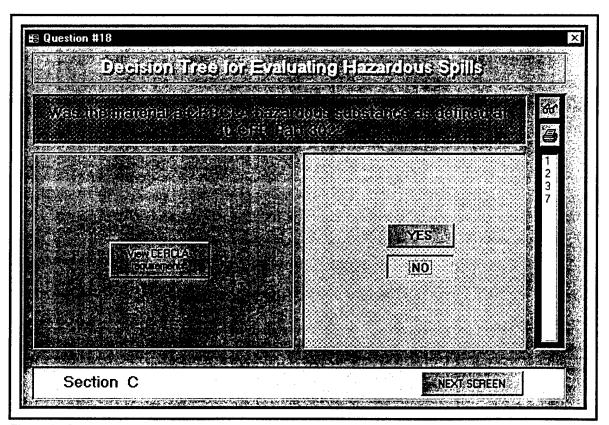


Figure 3. Sample "Yes/No" question screen.

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The vertical bar displayed on the right lists the notifications that apply to this spill event. This list may grow depending on how subsequent questions are answered. When the program concludes, all the applicable notifications will be listed in the final report. The user may view one of the notifications at this point by double-clicking on the notification number. For example, double-clicking on the 7 above will display notification #7. The user may click on the "eyeglasses" button to view all the notifications in the list, or click on the "printer" button to print all of the notifications in the list.

Once the user has answered all the questions, the conclusion screen (Figure 4) is displayed. From this screen, the user has three options: (1) to view a list of notifications, (2) to print a list of notifications, and (3) to print an answer trail report. The answer trail report is a record of how each question was answered in the session just concluded.

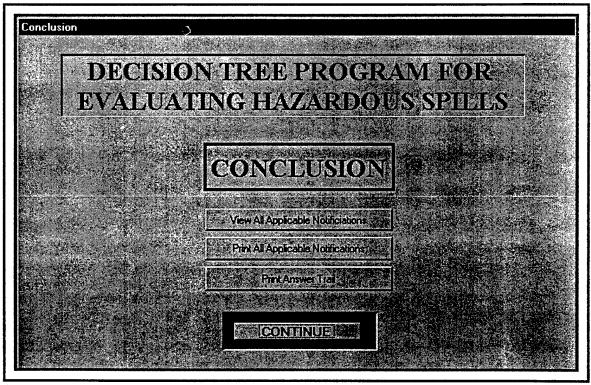


Figure 4. SPILL program "Conclusion" screen.

When the "Print Answer Trail" button is selected, a "Summary Information" screen (Figure 5) appears that allows the user to document and label this spill session. It is recommended that the user complete this form and print the reports at this point. Otherwise, once the program is exited, these results will be lost.

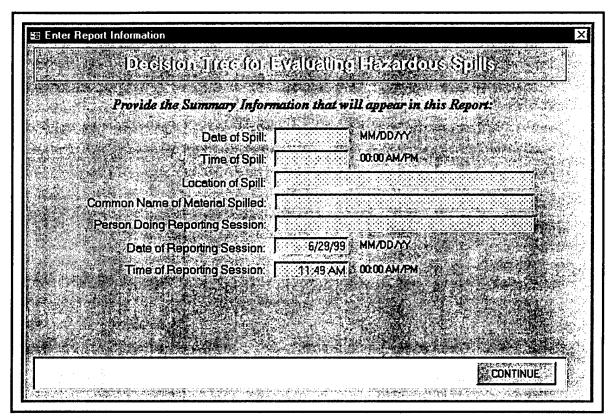


Figure 5. "Summary Information" screen.

#### Reports

Figure 6 shows the reports screen. This screen is another place from which the concluding reports may be produced. Keep in mind that these reports are available ONLY until the program is exited or until a new question/answer session is begun.

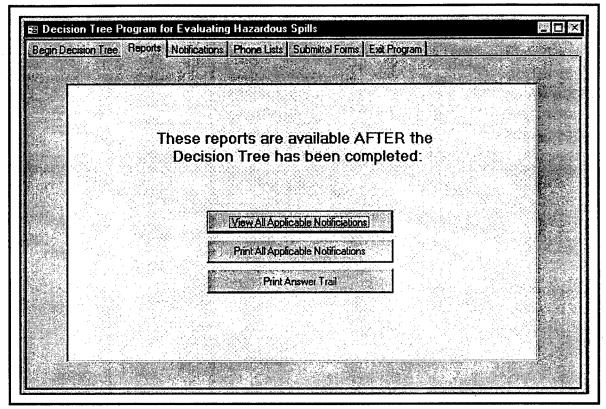


Figure 6. SPILL program "Reports" screen.

A sample notification report is included in Appendix C and a sample answer trail report is included in Appendix D.

#### **Notifications**

The "road map" in Appendix B shows how the notifications are programmatically tied to the questions and answers. (For example, answering "Yes" to Question 3 triggers Notification #1.) This link is hard-coded and cannot be easily changed. However, the text of each notification is editable. There will be times that phone numbers and names will need to be changed. This notification list is edited by using the NOTIFICATIONS screen (Figure 7).

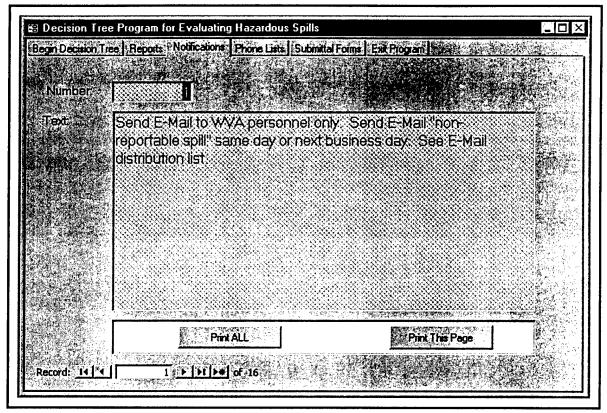


Figure 7. "Notifications" screen.

Each notification is keyed to the NOTIFICATION number. To change the text, simply type over it. Once changed, this new information is saved "permanently" or until it is changed again. The current notification may be printed by clicking the "Print This Page" button. Use the "Print ALL" button to print all notifications in the system.

#### **Phone Lists**

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The phone list feature is not directly attached to the notifications or to other parts of the program, but is provided as a convenience. The user will want to add all pertinent phone numbers to the list so that they will be readily accessible during a spill situation.

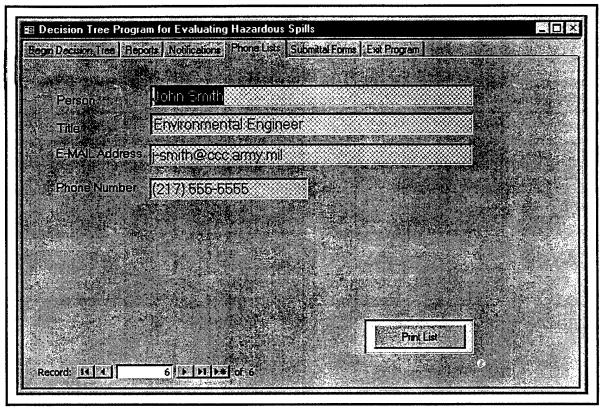


Figure 8. SPILL program phone list record.

To edit a record, simply type over the existing text. It will be saved and remain as such until it is edited again.

To add a new record, mouse click on the button. A new blank record appears. Type in the information for the new record.

A complete phone "directory" may be printed by using the "Print List" button.

#### **Submittal Forms**

On conclusion of the decision tree sequence for a specific spill, one of the notification statements may stipulate that a New York State Department of Environmental Conservation Division of Water "REPORT OF NONCOMPLIANCE EVENT" be submitted. The user may produce a copy of this noncompliance from the submittal forms screen (Figure 9). Appendix E to this letter report contains a copy of this form. The instruction sheet for completing this form may also be printed from this screen. Print either of these items by clicking the appropriate button.

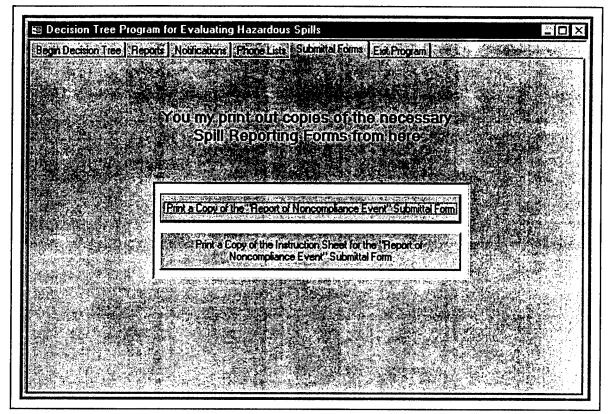


Figure 9. Submittal Forms screen.

#### **Exit Program**

The last screen (Figure 10) is used to exit the program. Keep in mind that all SESSION results are lost once the program is exited. However, changes to phone lists or notification lists will be saved for subsequent sessions.

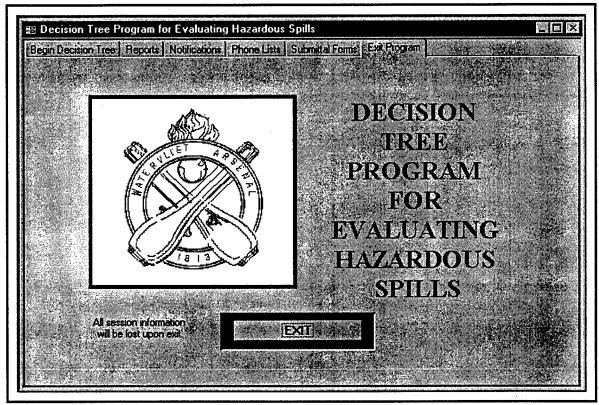


Figure 10. SPILL program Exit screen

### 5 Conclusion

This study devised an automated approach to help Army installation personnel quickly and correctly evaluate hazardous materials spills, and make required notifications. The Decision Tree Program for Evaluating Hazardous Spills (SPILL) program is a computer tool designed to allow Watervliet Arsenal personnel to evaluate a material spill on installation property and, based on determining factors, to report the event in a proper and timely fashion to all appropriate authorities. While the SPILL program was created specifically to meet the needs of a single Army installation, it may help any installation that stores, handles, or uses hazardous materials to quickly and correctly evaluate and respond to hazardous materials spills.

**Appendix A:** List of Questions

Page 1 of 3

Tuesday, June 29, 1999

# LIST OF QUESTIONS (sorted by number)

Number	Section	Question
-	4	Was the material petroleum?
2	٧	Was the spill entirely indoors or contained within an impervious secondary containment structure?
ဆ	∢	Has the spill been completely cleaned-up within 24 hours?
4	∢	Did it enter a storm sewer catchbasin?
5	4	Was the quantity more than 1000 gallons?
9	∢	Was the quantity less than 5 gallons?
7	∢	Did it reach navigable waters?
8	∢	Has there been a prior spill of petroleum which reached navigable waters?
6	٧	Did today's spill cause harm; sheen, discoloration or deposits?
10	∢ .	Did today's spill cause harm; sheen, discoloration or deposits?
1	<b>4</b>	Was the spill entirely onto an impervious surface?
12	∢	Was the quantity more than 1000 gallons?
13	۷	Was the spill completely under control within 2 hours?
4	8	Was the material a hazardous waste?
15	80	Did it exceed the CERCLA reportable quantity?
16	80	Did it enter a storm sewer catchbasin?
17	<b>6</b> 0	Did it enter a storm sewer catchbasin?
18	ပ	Was the material a CERCLA hazardous substance as defined at 40 CFR Part 302?

Number	Section	Question
19	၁	Was the spill entirely indoors and/or entirely within a secondary containment structure?
50	O	Has the spill been completely cleaned-up within 24 hours?
21	υ	Did it enter a storm sewer catchbasin?
22	Ö	Did it exceed the CERCLA reportable quantity?
23	ပ ပ	Did it exceed the CERCLA reportable quantity?
24	۵	Was the material an EPCRA "extremely hazardous substance"?
25	۵	Was the spill entirely indoors and/or entirely within a secondary containment structure?
56	o	Has the spill been completely cleaned-up within 24 hours?
27	۵	Did it enter a storm sewer catchbasin?
28	۵	Did it exceed the EHS reportable quantity?
29	۵	Does it threaten Rensselaer County?
30	۵	Did it exceed the EHS reportable quantity?
31	٥	Does it threaten Rensselaer County?
32	ш	Was the material a "Clean Waters Act" substance?
33	ш	Was the spill entirely indoors and/or entirely within a secondary containment structure?
34	ш	Has the spill been completely cleaned-up within 24 hours?
35	ш	Did it enter a storm sewer catchbasin?
36	ш —	Was the material a "Clean Waters Act" substance?
37	ш	Was the material a "Clean Waters Act" substance?
88 :	ш	Was the material a NYSDEC chemical bulk storage-regulated chemical?
Tuesday, Ju	Tuesday, June 29, 1999	Page 2 of 3

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Number	Section	Question
39	ш.	Was the spill entirely indoors and/or entirely within a secondary containment structure?
40	ш	Has the spill been completely cleaned-up within 24 hours?
41	L	Did it enter a storm sewer catchbasin?
42	L	Did it exceed the NYSDEC CBS reportable quantity?
43	L	Did it exceed the NYSDEC CBS reportable quantity?
44		Was the material PCB?
45	_	Was the spill entirely indoors and/or entirely within a secondary containment structure?
46	-	Has the spill been completely cleaned-up within 24 hours?
47	-	Did it enter a storm sewer catchbasin?
48	_	Was the source concentration known/presumed greater than 50 ppm or unknown?
49	-	Was the source concentration known/presumed greater than 50 ppm or unknown?
20		Any other material spilled which has not yet been accounted for in this decision-tree?
51	7	Was the spill entirely indoors and/or entirely within a secondary containment structure?
52	7	Has the spill been completely cleaned-up within 24 hours?
53	~ ~	Did it enter a storm sewer catchbasin?
<b>%</b>	~~	Was the source a RCRA SWMU per RCRA consent order?
52	~ ~	Was the source a RCRA SWMU per RCRA consent order?
	-	

Tuesday, June 29, 1999

Appendix B: System Road Map

# **Section A**

No. No. of Co.	834.4	YES, Molifications	UNJE	NO Notifications   Mathematical	STATE STATES	STORES.
question 1	question 2		question 14		answer1	
question 2	question 3		question 4		answer2	question 1
question 3	question 14		question 14	2, 3	answer3	question 2
question 4	question 5		question 6		answer4	question 2
question 5	question 14	2, 3, 5, 6, 9	question 7		answer5	question 4
question 6	question 11		question 12		answer6	question 4
question 7	question 8		question 14	2, 3	answer7	question 5
question 8	question 9		question 10		answer8	question 7
question 9	question 14	2, 3, 5, 6, 9	question 14	2, 3, 5, 6	answer9	question 8
question 10	question 14	2, 3, 5, 9	question 14	, 3, 5	answer10	question 8
question 11	Question 13		question 14	, 3	answer11	question 6
question 12	question 14	2, 3, 6	question 14	ε,	answer12	question 6
question 13	duestion 14		question 14	6,	answer13	question 11

# Section B

		test promised to the				888.008.008.008.008.008.008.008.008.008
14	question 15		question 18		answer14	
15	question16		question17	-	answer15	question 14
9	question 18	2, 3, 5, 7, 9	question 18 2,	3, 7, 9	answer16	question 15
_	question 18	2, 3, 5, 7	question 18 2,	3, 7	answer17	question 15

# Section C

4 VES, Noti question 19 question 20 question 24 question 22 question 24 question 24 2, 3, 5, 9
guestion 19 question 20 question 24 question 22 question 24 question 24 2, 3,
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# Section D

100 100	FYES	YES, Notifications	RNC NO NOTICENTO	NO Noffications   FleidName	Steworts
estion 24	question 25		guestion 32	answer24	
estion 25	question 26		question 27	answer25	answer25   question 24
estion 26	question 32		question 32 2, 3	answer26	answer26 question 25
estion 27	question 28		question 30	answer27	question 25
estion 28	question 29		question 32 2, 3, 5	answer28	question 27
estion 29	question 32	2, 3, 5, 9, 14, 15, 16	question 32 2, 3, 5, 9, 14, 15	answer29	question 28
estion 30	1		question 32 2, 3	answer30	question 27
estion 31	question 32	2, 3, 9, 14, 15, 16	question 32 2, 3, 9, 14, 15	answer31	question 30

# Section E

OHESTION	1783	YES, Motifications	IN ON UNITED IN O. NO.	Offications Feedbane	Flektivame	Previous
question 32	question 33		question 38	ar	answer32	
question 33	question 34		question 35	a	nswer33	answer33 question 32
question 34	question 38	1	question 38 2, 3	ar	answer34	question 33
question 35	question 36		question 37	ar	answer35	question 33
question 36	dnestion 38	2, 3, 5, 9	question 38 2, 3, 5	9	answer36	question 35
question 37	question 38	2, 3, 9	question 38 2, 3	at	answer37	question 35

# Section F

	SEA #	YES, Notincations	11.04.1	NO NORMANIE	Salar Sa	
unection 38	niestion 39		guestion 44		answer38	
nestion 39	niestion 40		question 41		answer39	answer39   question 38
riection 40	niestion 44		question 44 2,	2, 3	answer40	question 39
destion 41	niestion 42		question 43		answer41	question 39
uestion 42	77	2.3.5.10		2, 3, 5	answer42	question 41
nestion 43	miestion 44	3, 10	question 44 2,	8	answer43	question 41

## Section I

NO ESTRE	1768	YES, Notifications   William   NO Nutifications   Fleich	dName	Previous
question 44	question 45	question 50   answer44	ver44	
question 45	question 46	question 47 answer45		question 44
question 46	question 50	question 50 2, 3 answer46	Π	question 45
question 47	question 48	question 49		question 45
question 48	guestion 50	question 50 ? answer48		question 47
question 49	question 50	duestion 50	ļ	minection 47

# Section J

MOLESTICA	SEA IL VES	YES, Notifications	Feldhane   NC, Noffcetions   Feldhane	FIGUNARIO	Frestions
estion 50	question 51		Conclusion	answer50	
lestion 51	question 52		question 53	answer51	question 50
estion 52	Conclusion 1		Conclusion 2, 3	answer52	question 51
estion 53	question 54		question 55	answer53	question 51
estion 54	Conclusion	2, 3, 5, 11, 12, 13	Condusion 2, 3, 5	answer54	question 53
estion 55	Conclusion 2	2, 3, 11, 12, 13	Conclusion [2, 3	answer55	question 53

**Appendix C:** Sample Notifications Report

## NOTIFICATION ACTION REQUIRED:

Notification 1
Send E-Mail to WVA personnel only. Send E-Mail "non-reportable spill" same day or next business day. See E-Mail distribution list.
Notification 2
Call NYSDEC Spill Hotline within 2 hours.
NYSDEL Spill Hotline Phone Number is (518) 457-7362.
Notification 3
Send E-Mail to HQ IOC and WVA personnel. Send E-Mail "Reportable Spill" same day or next business day. See E-Mail distribution list.
On the weekend, if high profile, call IOC duty officer at phone #
Notification 5
Call NYSDEC Region 4 Regional Water Engineer (ATTN: Mr. Fred Sievers, P.E.) at phone number (518) 357-2045. Ask if 5-day written letter is required or waived per NYSDEC discretion encoded at Make written notation of decision in spill log book. If NYSDEC requires 5-day written letter, perform notification #4. Alternate NYSDEC POCs are regional director or regional engineer or regional director.
Notification 7
Before "Re-commence Hazardous Waste Activities" call NYSDEC region 4 Regional Hazardous Waste Engineer (attn: Mr. Clif Van Guilder, P.E. at phone number, (518) 357-2045 per 6 NYCRR 373-3.4 (g)(10). Include statements per 6 NYCRR 373-3.4 (g)(9). Alternate NYSDEC POC assistant regional director or regional engineer or regional director. Ask if 15-day written letter required or waived per NYSDEC discretion encoded at  Make written notation of decision in spill log book. If NYSDEC require 15-day written letter, perform notification #8.
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Call the National Response Center (NRC) operated by the U.S. Coast Guard at phone number, \_\_\_\_\_\_, at the earliest convenience after termination of emergency response actions, or sooner if requesting assistance with emergency response actions.

**Appendix D: Sample Answer Trail Report** 

Page 1 of 2

Hazardous Spill Decision Tree - Answer Trail

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Section	Section Number	Question	Answer Given
٧	-	Was the material petroleum?	Yes
∢	. 7	Was the spill entirely indoors or contained within an impervious secondary containment structure?	Yes
<b>A</b>	ĸ	Has the spill been completely cleaned-up within 24 hours?	<b>8</b>
ω.	4	Was the material a hazardous waste?	Yes
æ	15	Did it exceed the CERCLA reportable quantity?	Yes
₩.	9	Did it enter a storm sewer catchbasin?	o N
ပ	18	Was the material a CERÇLA hazardous substance as defined at 40 CFR Part 302?	Yes
ပ	19	Was the spill entirely indoors and/or entirely within a secondary containment structure?	No
ပ	21	Did it enter a storm sewer catchbasin?	Yes
ပ	52	Did it exceed the CERCLA reportable quantity?	Yes
٥	24	Was the material an EPCRA "extremely hazardous substance"?	No
ш	32	Was the material a "Clean Waters Act" substance?	Yes
ш	33	Was the spill entirely indoors and/or entirely within a secondary containment structure?	Yes
ш	₹.	Has the spill been completely cleaned-up within 24 hours?	Yes

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Section	Section Number	Question	Answer Given
L.	38	Was the material a NYSDEC chemical bulk storage-regulated chemical?	Yes
<b>L</b>	39	Was the spill entirely indoors and/or entirely within a secondary containment structure?	ON.
 Ш	14	Did it enter a storm sewer catchbasin?	Yes
L	42	Did it exceed the NYSDEC CBS reportable quantity?	o <sub>N</sub>
_	44	Was the material PCB?	Yes
_	45	Was the spill entirely indoors and/or entirely within a secondary containment structure?	S S
	47	Did it enter a storm sewer catchbasin?	Yes
_	48	Was the source concentration known/presumed greater than 50 ppm or unknown?	Yes
. –	S	Any other material spilled which has not yet been accounted for in this decision-tree?	Yes

Was the spill entirely indoors and/or entirely within a secondary containment structure?

Was the source a RCRA SWMU per RCRA consent order?

Did it enter a storm sewer catchbasin?

53

8

Tuesday, June 29, 1999

Appendix E: Report of Noncompliance Event Form

	Department of Environment		
	Division of Water	CONTRACTOR OF THE PROPERTY OF	
	<u>ouNoncompliance</u>		
11(4 <u>10) = 1</u>	OBNO (KOMPHIMA)	JEYATI S.	
Profession - Land		OEO Foglón 😃	
Registration of the Control of the C		Copies (Academplanes: Byga	<b>62</b> Overflow
SECTION 2			
SPDES #: NY Facility:		The second secon	
Date of noncompliance: 1 2 1.ocation	n ( Outfall, Treatment Unit, or Pun	ip Station):	
Description of noncompliance(s) and cause(s):			
Has event ceased? (Ves) (No) If so, when? W	as event due to plant upset? (Yes) ('	No) SPDFS limits violated? (Yes) (No)	)
Start date, time of event://	M) (PM) End date, time of event:	/_/,:(AM) (PM	1)
Date, time oral notification made to DEC? :/		Official contacted:	
Immediate corrective actions:			
	•		
Preventive (long term) corrective actions:	e e		
	•		
SECTION 3. Complete this and of the remaining of the second of the secon	940 E		
Sin Opinin: (		Yamir Laibigai (Ya) (Ya)	
	erica Biography	(C) De la Companie de Series	2 also:
SECTION 4			
Facility Representative:	Title:	Date:/	
Phone #: ()	Fax #: (	)	

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Form Approved OMB No. 0704-0188

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AGENCY USE ONLY (Leave Blank)	2. REPORT DATE September 1999	3. REPORT TYPE AND DATES C Final	OVERED	
4. TITLE AND SUBTITLE Watervliet Arsenal Decision Tree Program for Evaluating Hazardous Spills (SPILL)  5. FUNDING NUMBERS MIPR 8DISCERL19X				
6. AUTHOR(S) Veda D. Scarpetta				
7. PERFORMING ORGANIZATION NAME U.S. Army Construction Engine P.O. Box 9005 Champaign, IL 61826-9005	e(s) AND ADDRESS(ES) neering Research Laboratory (CEF		8. PEFORMING OR REPORT NUMBE TR 99/83	
9. SPONSORING / MONITORING AGENCY Commander, Watervliet Arser ATTN: SIOWV-ISH Building 20 Watervliet, NY 12189-4050			10. SPONSORING / N AGENCY REPOR	
Supplementary notes     Copies are available from the	ne National Technical Information	Service, 5385 Port Royal F	Road, Springfield	I, VA 22161
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Army installation personnel the event in a proper and tim presenting the user with a se segment, the program lists in contains editable notification.  While the SPILL program w	sion Tree Program for Evaluating to evaluate a material spill on instruction to all appropriate authories of "YES" and "NO" question astructions and required notification and phone lists.  vas created specifically to meet the les, or uses hazardous materials to	callation property and, based corities. The program according the spill. On coons for the specific type of the needs of a single Army income.	d on determining mplishes the determining onclusion of the aspill in question.	factors, to report ermination by question/answer SPILL also help any
14. SUBJECT TERMS Watervliet Arsenal, NY	hazardous materials			15. NUMBER OF PAGES 46
Army facilities cleanup	Microsoft Access 97 Decision Tree Program f	or Evaluating Hazardous S	pills (SPILL)	16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ASTRACT Unclassified		20. LIMITATION OF ABSTRACT SAR